

Principles of Sylviculture course description

1. Course Name:					
Principles of Sylviculture					
2. Course Code:					
PRSY258					
2 Semester / Year:					
Second Semester / /Spring Semester /2023-2024					
3. Description Preparation Date:					
1/2/ 2024					
4. Available Attendance Forms:					
Attendance					
5. Number of Credit Hours (Total) / Number of Units (Total)					
2 Theory + 3 practical / 3.5 units (75 hours)					
6. Course administrator's name (mention all, if more than one name)					
Name: Dr. Shahla Abd alrazzak basheer/ Theory Email: shahla_abdalrazak@uomosul.edu.iq Mohammed Sameer Idrees/ Practical mohamed.alsawaf@ uomosul .edu.iq					
7. Course Objectives					
Theory : - Developing the student's ability to deal with scientific and technical means - Developing the student's ability to deal with the Internet - Developing the student's ability to deal with multiple media. - Developing the student's ability to dialogue and discuss Developing the student's ability to deal economically in the field the job.			Practical : -Developing the student's ability to deal with multiple media. - Developing the student's ability to dialogue and discuss		
8. Teaching and Learning Strategies					
Strategy		-Interactive lecture, Brainstorming, - Dialogue and discussion, - Assigning tasks and reporting - Assigning group work to reveal leadership skills			
9. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theory 3 Pract.	Theory: a1: Recognizes the forest, trees, types of trees, shapes of the crown canopy, types of trees, and the characteristic of biological balance. practical : :a11 Recognize pure trees	Theory: Forest Sylviculture science practical : Pure stand	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
2	2Theory 3 Pract	Theory: A2: Identify the	Theory Benefits of forests	Interactive lecture,	Exams, Homework,

		main and secondary benefits of forests : practical : a12 shows mixed s stand	Practical: Mixed bstand	brainstorming, dialogue and discussion, self-learning and reports	Reports
3	2Theory 3 Pract	Theory: a3: Recognizes seed and bare-leaf forests, hardwood and softwood forests, broad-leaved and deciduous forests. : practical ; a13 Compares needle and broad-leaved species	Theory: Forests in the world Practical: Types of forest trees around the world	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
4	2Theory 3 Pract	Theory:a4: Learn about tropical forests, subtropical forests, cold temperate forests, bamboo forests, mangrove forests. forestspractical : a14: Prepare a report on the types of trees in the needle forest	Theory: Features of world's main forests Practical: Watch a data show about broadleaf forests	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
5	2Theory 3 Pract	Theory: a5: Explains the palm area, the laurel area, the Qastal (chestnut) area, the beech area, the shuh area, and the alpine areas. practical : a15: Distinguish the types of trees in broad-leaved	Theory: Mayer's divisions Practical Watch a data show about forest forests	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
6	2Theory 3 Pract	Theory:a6: Shows the climatic regions in the Arab world, tree benefits of forests Practical : : a16 Identify the types of deciduous and evergreen forest trees	Theory: Forests in the Arab world Practical: Watch a data show about deciduous : evergreen	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
7	2Theory 3 Pract	Theory: a7: Explains the forest areas in Iraq, learns about the administrative distribution of forests in Iraq, types of natural	Theory: Forests in Iraq Practical: forests in the Arab world	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports

		forests in Iraq and their density, forest problems in Iraq : practical : b2 Discusses the direct and indirect			
8	2Theory 3 Pract	Theory: <u>a7</u> : Explains the forest areas in Iraq, learns about the administrative distribution of forests in Iraq, types of natural forests in Iraq and their density, forest problems in Iraq. practical : : b2 Discusses the direct and indirect benefits of forests	Theory: Natural boundaries of forests Practical: Direct : indirect benefits of fore	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
9	2Theory 3 Pract	Theory: <u>a8</u> : Leads a panel discussion on the effect of temperatures on the natural boundaries of forests and the spread of tree species Understands the meaning of the imaginary thermocline, the tree line, the alpine border, the border resulting from lack of humidity, the border resulting from low temperature. : practical : b3 Organizes a tour to see the types of trees growing naturally in Iraq	Theory: Vegetation types and tree development stages Practical: A scientific tour of the Mosul municipal nurseries	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
10	2Theory 3 Pract	Theory: <u>a9</u> : Recognizes the classification of vegetation on Earth (woody, grassy, desert plants) and distinguishes the stages of tree development (from the	Theory: <u>Density in forests</u> Practical: Forest products Developmenta processes in the nursery	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports

		seedling stage until the old age stage) practical : :c3 Classifies the areas of pine and oak forests in Iraq			
11	2Theory 3 Pract	Theory:a10: Discusses the degree of density in forests, its importance for tree growth (shade-tolerant trees and light-loving trees), and the factors affecting the degree of crown density. practical : : c4 makes a field visit to a forest Nineveh	Theory: Pure and mixed forests Practical: Planting and dispersing seeds A visit to the Nineveh Forest	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
12	2Theory 3 Pract	Theory:C1: Explains the factors of location and surroundings and their importance in relation to the type of trees and their natural spread Practical: d4: Tests the seeds and treats them before planting	Theory: Factors affecting forest growth Practical: Development processes in Nineveh forest	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
13	2Theory 3 Pract	Theory: c2, d1: Distinguishes between maximum and minimum temperatures and the extent of their impact on plant growth. Explains spring freeze and presents the types of trees that are tolerant to freeze and those that are not tolerant to freeze. The phenomenon of bare freeze. practical : d5: Performs developmental operations in the nursery, pruning and weeding queen	Theory: Climatic factors Practical: Methods propagating forest trees	Interactive lecture, brainstorming, dialogue and discussion, self-learning and reports	Exams, Homework, Reports
14	2Theory 3 Pract	Theory:e1: Shows the phenomena that occur as a result of the decrease and increase in temperature, such as	Theory:Freeze Practical: Seed treatment before planting and vitality testing	Interactive lecture, brainstorming, dialogue discussion, s	Exams, Homework, Reports

		physiological drought, winter death, and bark burning. practical: d6: He fills the planting bags with sand		learning and report	
15	2Theory 3 Pract	Theory: e2: Determines degree of tolerance of plants and their requirements moisture, explains sources of moisture (rain, types of precipitation), and the importance of snow tree growth, explains phenomenon of tolerance identifies the extent of effect of wind on tree growth, and displays resistant tree types that suitable as windbreaks. practical : e3: Planting and dispersing seeds	Theory:Humidity and wind Practical: Development of processes in the nursery	Interactive lecture, brainstorming, dialogue discussion, self-learning and reports	Exams, Homework, Reports

Course Evaluation

	Evaluation Methods	Evaluation Date	Degree	Relative weight %
	Final report theory + pract. Report	Theory 15 weeks Pract. 1-15 week	7 Theory + 6 pract.	% 13
	Short exam (1)	Week (3)	4 Theory + 2 pract.	% 6
	Half exam (theory + pract.)	Week (9)	10 Theory + 5 pract.	% 15
	Short exam (2)	Week (12)	4 Theory + 2 pract.	% 6
	Final exam (practical)	Exam pract.	20	% 20
	Final exam (theory)	Exam theory	40	% 40
			100	% 100

10. Learning and Teaching Resources

Principles of Silviculture	Prof .Dr.Yavuz Shafiq AbdullAH/1988

Teacher of Theory : Dr. Shahla Abd alrazzak basheer

Mohammed Sameer Idrees/ Practic

Chairman of the Scientific Committee :

Head of the Dept. of Forestry Sciences:Dr. Muzahim

